

## GENERAL SPECIFICATIONS

Name: Flywell Magneto

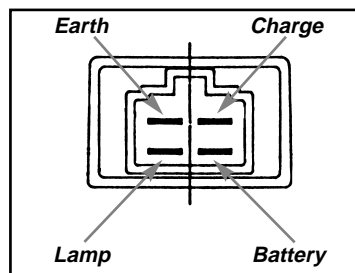
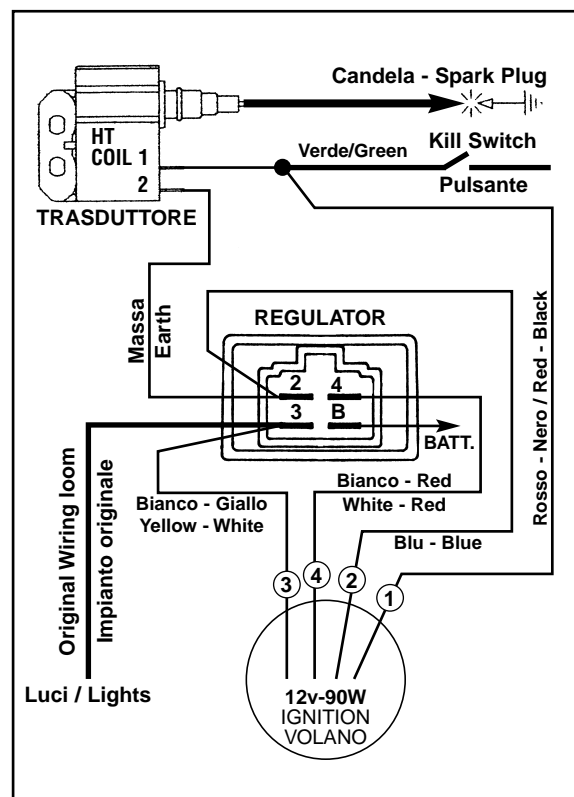
## MECHANICAL SPECIFICATIONS

Direction of rotation Counterclockwise (viewed smaller taper side)  
Range of revolution 500 rpm ~ 12000 rpm  
Guaranteed Revolutions The deformation of outside diameter must be 0.05 max under 14000 rpm  
Test for 3 minutes  
Limit of umballance By static ballance <10 g cm or less  
Momenti di inerzia 12 Kg cm<sup>2</sup>  
Total weight 1270 Kg  
Stator 0.470 Kg  
Rotor 0.800 Kg  
Air Gap Between stator and rotor 0.55 mm Min  
Surface treatment Yellow electroplated coating of zinc (Tmin guaranteed = 150° C)

## ELECTRICAL SPECIFICATIONS

Ignition method C.D. Ignition system (Thyristor)  
Number of sparks 2 sparks per revolution at 180°

## ACTUAL CIRCUIT



## MEANING OF SYMBOL

$\Rightarrow n$  Supplied power  
 $\theta$  Ignition timing before top lead dead center  
 $N$  r.p.m.  
 $V_o$  Secondary voltage 50pF loaded  
NOTE The core of the stator must be at earth potential with the engine

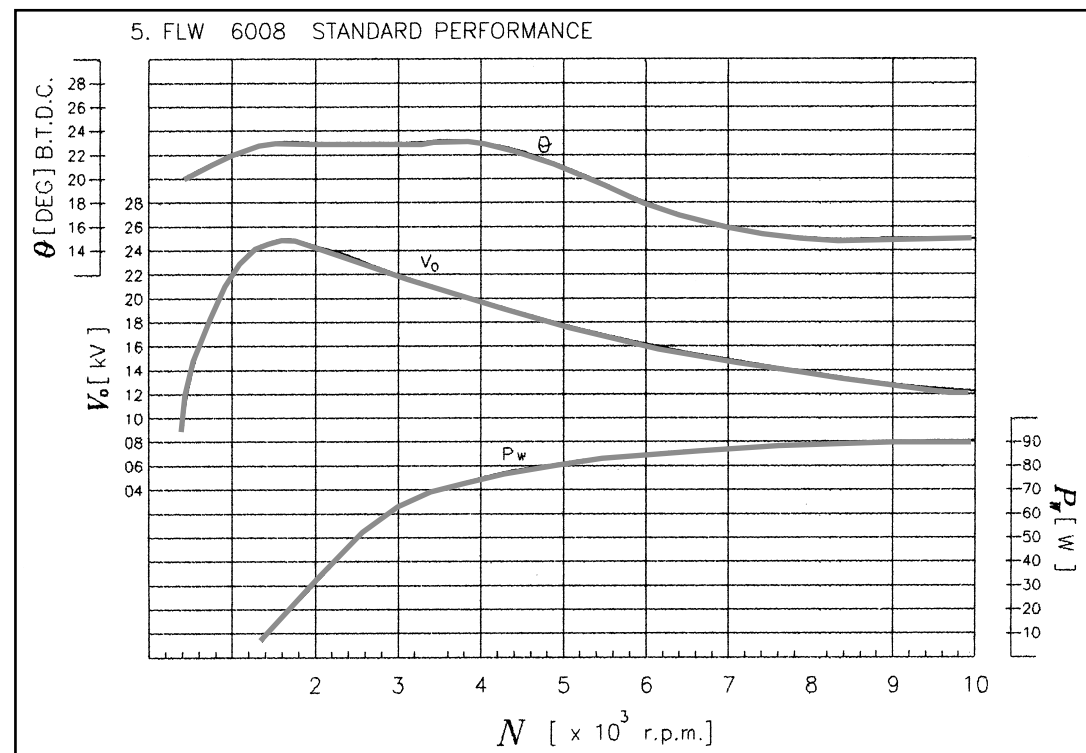
## RESISTANCE VALUES OF COILS (AT 20°C)

Measuring place	Resistance value (OHM)
GREEN/EARTH	290 $\pm$ 20%
YELLOW/EARTH	0.4 $\pm$ 20%

## HANDLING PRECAUTIONS FOR FLYWHEEL

1. No use of hammer when mounting or removing from the engine
2. Use only the specified puller when removing from the engine
3. Every kind of impact must never be applied: the ferrite segments may be damaged.

## FLW 6008 STANDARD PERFORMANCE



## SPECIFICATIONS

Storage temperature -30 ~ +80°C  
Operating temperature -10 ~ +80°C  
Allowable temperature SCR (AC) Junction Max +125°  
SCR (DC) Junction Max +125°  
Condenser surface Max +105°  
Maximum regulate current (AC) Max 9 Aave  
(DC) Max 5 Aave

## ELECTRICAL CHARACTERISTICS

Regulate voltage (AC) 12.7  $\pm$ 0.5 Vrms (Battery full night circuit, 5000 rpm Ta=25°C Temp. coefficient max  $\pm$ 8mV/°C)  
(DC) 14.5  $\pm$ 0.5 Vrms (Battery full day circuit, 5000 rpm Ta=25°C Temp. coefficient max  $\pm$ 12mV/°C)

Leak current Max 0.1 mA  
Insulating resistance Min 50M $\Omega$

## RELIABILITY

Satisfy with the electrical characteristics each reliability testing  
- Mechanical shock 980m/s<sup>2</sup> (100G). Shocked two times in each of X,Y and Z directions.  
- Temperature cycling 100 cycles each consisting of +100°C 1 hour and -20°C 1 hour in atmosphere  
- Vibration 196 m/s<sup>2</sup> (20G), 50 to 500 Hz/15 minutes log sweep for 4 hours in each of X, Y and Z directions  
- Operate acceleration AC 5 Aave, DC 3Aave, 500 cycles each consisting of 30 min. ON/30 min OFF.  
- Salt spray 5% salt water immersion 96 hours  
- Weight 48 g